

[ONE-PIECE TAB ASSEMBLY FOR A CATHODE CUP OF AN X-RAY IMAGING MACHINE]

Abstract of Disclosure

A cathode assembly (43) for a computed tomography scanning system (10) is provided. The cathode assembly (43) includes a one-piece tab assembly (52) for simple and relatively quick installation on a cathode cup (44). In one embodiment, the one-piece tab assembly (52) has two rail portions (56) extending substantially across its length. These rail portions (56) are intended for insertion into channels (50) formed within the cathode cup (44) and for properly locating the one-piece tab assembly (52) in a desired position relative to the filament (46). The assembly (52) further includes two tab portions (58, 58") located on opposing ends of the rail portions (56). The tab portions (58, 58") each include a main body portion (62) and a flap portion (54) extending from the main body portion (62). The main body portion (62) extends between the two rail portions (56) and has a mounting surface for attaching the one-piece tab assembly (52) to the cathode cup (44). The flap portions (54) extend substantially perpendicular from the main body portions (62) and direct the electron beam emitted by the filament (46).

